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;  ISSUE: 8
;  PAGES: 2714 TO 2722
;  DATE: 1989-10-15
;  DATABASE ACCESSION NUMBER: AAA36045
;  DATABASE ENTRY DATE: 1993-07-26
;  RELEVANT RESIDUES: (1)..(216)
US-10-339-876A-8

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Best Local Similarity   100.0%;  Pred. No. 7.1e-102;
Matches 216;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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Qy  121 ISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSSKLDF 180
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Qy  181 NMTTNHSFMCLIKYGHLRVNQTFNWNTTKQEHFPDN 216
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RESULT 2
US-09-915-789A-21
Sequence 21, Application US/0991578 9A
Patent No. US20020168762A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
; TITLE OF INVENTION: MOLECULES
; FILE REFERENCE: 07039-219001
; CURRENT APPLICATION NUMBER: US/09/915,789A
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/220,991
; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 226
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-915-789A-21

Query Match             100.0%;  Score 1149;  DB 9;  Length 226;
Best Local Similarity   100.0%;  Pred. No. 7.5e-102;
Matches 216;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy    1 GLSHFCSGVIHVTKEVEVATLSCGHNVSVEELAQTRIYWQKEKKMVLTMMSGDMNIWPE 60
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Db   11 GLSHFCSGVIHVTKEVEVATLSCGHNVSVEELAQTRIYWQKEKKMVLTMMSGDMNIWPE 70

Qy   61 YKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYEKDAFKREHLAEVTLSVKADFPTPS 120
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Qy  121 ISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSSKLDF 180
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Qy  181 NMTTNHSFMCLIKYGHLRVNQTFNWNTTKQEHFPDN 216
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RESULT 3
US-08-592-711-2
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; Sequence 2, Application US/08592711
; Publication No. US20020115214A1
; GENERAL INFORMATION:
; APPLICANT: June, Carl H.
; APPLICANT: Thompson, Craig B.
; APPLICANT: Nabel, Gary J.
; APPLICANT: Gray, Gary S.
; APPLICANT: Rennert, Paul D.
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-cells
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/592,711
; FILING DATE: 26-JAN-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/435,816
; FILING DATE: 4-MAY-1995
; APPLICATION NUMBER: US 08/403,253
; FILING DATE: 10-MARCH-1995
; APPLICATION NUMBER: US 08/253,964
; FILING DATE: 3-JUNE-1994
; APPLICATION NUMBER: US 08/073,223
; FILING DATE: 4-JUNE-1993
; APPLICATION NUMBER: US 08/200,947
; FILING DATE: 23-FEB-1994
; APPLICATION NUMBER: US 07/864,805
; FILING DATE: 7-APR-1992
; APPLICATION NUMBER: US 08/247,505
; FILING DATE: 23-MAY-1994
; APPLICATION NUMBER: US 07/864,866
; FILING DATE: 7-APR-1992
; APPLICATION NUMBER: US 08/218,155
; FILING DATE: 25-MAR-1994
; APPLICATION NUMBER: US 07/864,807
; FILING DATE: 7-APR-1992
; APPLICATION NUMBER: US 07/902,467
; FILING DATE: 16-JUNE-1992
; APPLICATION NUMBER: US 07/275,433
; FILING DATE: 23-NOV-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-002CP4
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 288 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; DESCRIPTION: B cell activation antigen; natural ligand
; DESCRIPTION: for CD28 T cell surface antigen; transmembrane protein
; FEATURE:
; NAME/KEY: signal sequence
; LOCATION: -34 to -1
; DESCRIPTION: amino terminal sequencing of
; IDENTIFICATION METHOD: soluble protein
; OTHER INFORMATION: hydrophobic
; FEATURE:
; NAME/KEY: extracellular domain
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OM protein - protein search, using sw model

Copyright (c) 1993 - 2004 Compugen Ltd.

GenCore version 5.1.6

Run on: May 27, 2004, 15:13:49 ; Search time 46 Seconds
                 (without alignments)
                 1311.258 Million cell updates/sec

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Perfect score: 1149
Title: US-09-666-267B-8

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                 Gapop 10.0 , Gapext 0.5

Searched: 1151071 seqs, 279249464 residues

Total number of hits satisfying chosen parameters: 1151071

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
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Database :   Published Applications AA.*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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4	1149	100.0	288	8	US-09-772-102-14	Sequence 14, Appl
5	1149	100.0	288	9	US-09-837-867A-19	Sequence 19, Appl
6	1149	100.0	288	9	US-09-910-174A-5	Sequence 5, Appli
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8	1149	100.0	288	9	US-09-915-789A-15	Sequence 15, Appl
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11	1149	100.0	288	12	US-10-318-055-34	Sequence 34, Appl
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14	1149	100.0	288	14	US-10-261-101-2	GENERAL INFORMA
15	1149	100.0	288	14	US-10-032-214-278	Sequence 278, App
16	1149	100.0	288	14	US-10-126-088-2	Sequence 2, Appli
17	1149	100.0	288	14	US-10-041-319-7	Sequence 7, Appli
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19	1149	100.0	473	9	US-09-910-059-131	Sequence 131, App
20	1143	99.5	492	9	US-09-845-899A-3	Sequence 3, Appli
21	1129	98.3	288	14	US-10-032-214-94	Sequence 94, Appl
22	1121	97.6	288	14	US-10-032-214-69	Sequence 69, Appl
23	1121	97.6	288	14	US-10-032-214-82	Sequence 82, Appl
24	1121	97.4	288	14	US-10-032-214-71	Sequence 71, Appl
25	1119	97.4	288	14	US-10-032-214-77	Sequence 77, Appl
26	1119	97.4	288	14	US-10-032-214-225	Sequence 225, App
27	1118	97.3	288	14	US-10-032-214-84	Sequence 84, Appl
28	1116	97.1	288	14	US-10-032-214-76	Sequence 76, Appl
29	1116	97.1	288	14	US-10-032-214-86	Sequence 86, Appl
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31	1116	97.1	288	14	US-10-032-214-286	Sequence 286, App
32	1114	97.0	288	14	US-10-032-214-226	Sequence 226, App
33	1114	97.0	288	14	US-10-032-214-251	Sequence 251, App
34	1113	96.9	288	14	US-10-032-214-90	Sequence 90, Appl
35	1113	96.9	288	14	US-10-032-214-228	Sequence 228, App
36	1113	96.9	288	14	US-10-032-214-250	Sequence 250, App
37	1112	96.8	288	14	US-10-032-214-78	Sequence 78, Appl
38	1112	96.8	288	14	US-10-032-214-248	Sequence 248, App
39	1111	96.7	288	14	US-10-032-214-236	Sequence 236, App
40	1110	96.6	288	14	US-10-032-214-238	Sequence 238, App
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42	1109	96.5	288	14	US-10-032-214-89	Sequence 89, Appl
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44	1109	96.5	288	14	US-10-032-214-249	Sequence 249, App
45	1108	96.4	287	14	US-10-032-214-243	Sequence 243, App

ALIGNMENTS

RESULT 1
US-10-339-876A-8

Sequence 8, Application US/10339876A

Publication No. US20030210944A1

GENERAL INFORMATION:

APPLICANT: Brady, William
APPLICANT: Linsley, Peter S.
APPLICANT: Ledbetter, Jeffrey A.
APPLICANT: Damle, Nitin K.

TITLE OF INVENTION: LIGAND FOR CD28 RECEPTOR ON B CELLS AND METHODS

FILE REFERENCE: 30436.11US07

CURRENT APPLICATION NUMBER: US/10/339,876A

CURRENT FILING DATE: 2003-01-10

PRIOR APPLICATION NUMBER: 07/498,949
PRIOR FILING DATE: 1990-03-26
PRIOR APPLICATION NUMBER: 08/219,200
PRIOR FILING DATE: 1994-03-29
PRIOR APPLICATION NUMBER: 08/459,766
PRIOR FILING DATE: 1995-06-02
PRIOR APPLICATION NUMBER: 07/547,980
PRIOR FILING DATE: 1990-07-02
PRIOR APPLICATION NUMBER: 07/722,101
PRIOR FILING DATE: 1991-06-27
PRIOR APPLICATION NUMBER: 09/569,164
PRIOR FILING DATE: 2000-05-11

NUMBER OF SEQ ID NOS: 8

SOFTWARE: PatentIn version 3.2

SEQ ID NO 8
  LENGTH: 216
  TYPE: PRT
  ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
  AUTHORS: Gordon J. Freeman, Arnold S. Freeman, Jeffrey M. Segil, Grace
           AUTHORS: Lee, James F. Whitman and Lee M. Nadler
  TITLE: B7, A NEW MEMBER OF THE Ig SUPERFAMILY WITH UNIQUE EXPRESSION ON
  TITLE: ACTIVATED AND NEOPLASTIC B CELLS
  JOURNAL: J. Immunol.
  VOLUME: 143

OM protein - protein search, using sw model

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GenCore version 5.1.6

Run on: May 27, 2004, 15:12:55.; Search time 22 seconds
(without alignments)
506.873 Million cell updates/sec

Title: US-09-666-267B-8
Perfect score: 1149
Sequence: 1 GLSHFCSGVIHVTKEVKEVA..........LRVNQTFNWNTTKQEHFPDN 216

Scoring table: BLOSUM62
               Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	1149	100.0	288	2	US-08-456-104-6	Sequence 6, Appli
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21	1149	100.0	288	5	US-08-453-386A-2	Sequence 2, Appli
22	1102	95.9	473	3	PCT-US95-02576-19	Sequence 19, App
23	1100	95.7	208	4	US-09-171-945-131	Sequence 131, App
24	1100	95.7	208	4	US-09-460-384-36	Sequence 36, Appl
25	1050	91.4	208	3	US-09-651-200-14	Sequence 14, Appl
26	1050	91.4	208	3	US-08-030-172-15	Sequence 15, Appl
27	743	64.7	292	4	US-09-651-200-16	Sequence 16, Appl
28	743	64.7	292	4	US-09-303-040-2	Sequence 2, Appli
29	739	64.3	292	4	US-09-303-040-4	Sequence 4, Appli
30	738	64.2	299	4	US-09-651-200-15	Sequence 15, Appli
31	561	48.8	306	3	US-08-205-697A-17	Sequence 17, Appl
32	561	48.8	306	4	US-09-702-525-17	Sequence 17, Appl
33	561	48.8	306	4	US-09-651-200-17	Sequence 17, Appl
34	561	48.8	306	4	US-09-837-867A-35	Sequence 35, Appl
35	561	48.8	306	4	US-09-837-867A-17	Sequence 17, Appl
36	561	48.8	306	5	PCT-US95-02576-17	Sequence 17, Appl
37	561	48.8	320	4	US-09-702-525-2	Sequence 2, Appli
38	561	48.8	320	3	US-09-837-867A-2	Sequence 2, Appli
39	561	48.8	320	4	US-08-205-697A-2	Sequence 2, Appli
40	561	48.8	320	2	US-08-147-772-4	Sequence 4, Appli
41	561	48.8	306	2	US-09-837-867A-2	Sequence 2, Appli
42	558	48.6	306	2	US-08-456-104-8	Sequence 8, Appli
43	558	48.6	306	2	US-08-101-624-25	Sequence 25, Appl
44	558	48.6	306	3	US-08-153-262-4	Sequence 4, Appli
45	558	48.6	306	4	US-08-479-744A-31	Sequence 31, Appl

ALIGNMENTS

RESULT 1
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Sequence 2, Application US/08147772
; Patent No. 5858776
; GENERAL INFORMATION:
; APPLICANT: Ostrand-Rosenberg, Suzanne
; APPLICANT: Baskar, Sivasubramanian
; APPLICANT: Glimcher, Laurie H.
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; TITLE OF INVENTION: Tumor Cells With Increased Immunogenicity
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/147,772
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 288 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; DESCRIPTION: B cell activation antigen; natural ligand
; DESCRIPTION: for CD28 T cell surface antigen; transmembrane protein
; FEATURE:
; NAME/KEY: signal sequence
; LOCATION: -34 to -1
; IDENTIFICATION METHOD: amino terminal sequencing of

AUTHORS: NADLER, LEE M.
TITLE: B7; A New Member Of The Ig Superfamily With
TITLE: Unique Expression On Activated And Neoplastic B Cells
JOURNAL: The Journal of Immunology
VOLUME: 143
ISSUE: 8
PAGES: 2714-2722
DATE: 15-OCT-1989
RELEVANT RESIDUES IN SEQ ID NO: 2: From -26 to 262

US-08-147-772-2

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RESULT 2
US-08-456-104-6
Sequence 6, Application US/08456104
Patent No. 5861310
GENERAL INFORMATION:
APPLICANT: Freeman, Gordon J.
APPLICANT: Nadler, Lee M.
APPLICANT: Gray, Gary S.
TITLE OF INVENTION: TUMOR CELLS MODIFIED TO EXPRESS B7-2 AND B7-3 WITH INCREASED
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/456,104
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/101,624;
FILING DATE: 26-JUL-1993;
APPLICATION NUMBER: 08/109,393;
FILING DATE: 19-AUG-1993
APPLICATION NUMBER:
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INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 288 amino acids

IDENTIFICATION METHOD: soluble protein
OTHER INFORMATION: hydrophobic
FEATURE:
NAME/KEY: extracellular domain
LOCATION: 1 to 208
IDENTIFICATION METHOD: similarity with known
FEATURE:
NAME/KEY: transmembrane domain
LOCATION: 209 to 235
IDENTIFICATION METHOD: similarity with known
IDENTIFICATION METHOD: sequence
FEATURE:
NAME/KEY: intracellular domain
LOCATION: 236 to 254
IDENTIFICATION METHOD: similarity with known
IDENTIFICATION METHOD: sequence
FEATURE:
NAME/KEY: N-linked glycosylation
LOCATION: 19 to 21
IDENTIFICATION METHOD: similarity with known
IDENTIFICATION METHOD: sequence
FEATURE:
NAME/KEY: N-linked glycosylation
LOCATION: 173 to 175
IDENTIFICATION METHOD: similarity with known
IDENTIFICATION METHOD: sequence
FEATURE:
NAME/KEY: N-linked glycosylation
LOCATION: 55 to 57
IDENTIFICATION METHOD: similarity with known
IDENTIFICATION METHOD: sequence
FEATURE:
NAME/KEY: N-linked glycosylation
LOCATION: 64 to 66
IDENTIFICATION METHOD: similarity with known
IDENTIFICATION METHOD: sequence
FEATURE:
NAME/KEY: N-linked glycosylation
LOCATION: 198 to 200
IDENTIFICATION METHOD: similarity with known
IDENTIFICATION METHOD: sequence
FEATURE:
NAME/KEY: N-linked glycosylation
LOCATION: 177 to 179
IDENTIFICATION METHOD: similarity with known
IDENTIFICATION METHOD: sequence
FEATURE:
NAME/KEY: N-linked glycosylation
LOCATION: 152 to 154
IDENTIFICATION METHOD: similarity with known
IDENTIFICATION METHOD: sequence
FEATURE:
NAME/KEY: N-linked glycosylation
LOCATION: 192 to 194
IDENTIFICATION METHOD: similarity with known
IDENTIFICATION METHOD: sequence
FEATURE:
NAME/KEY: Ig V-set domain
LOCATION: 1 to 104
IDENTIFICATION METHOD: similarity with known
FEATURE:
NAME/KEY: Ig C-set domain
LOCATION: 105 to 202
IDENTIFICATION METHOD: similarity with known

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